



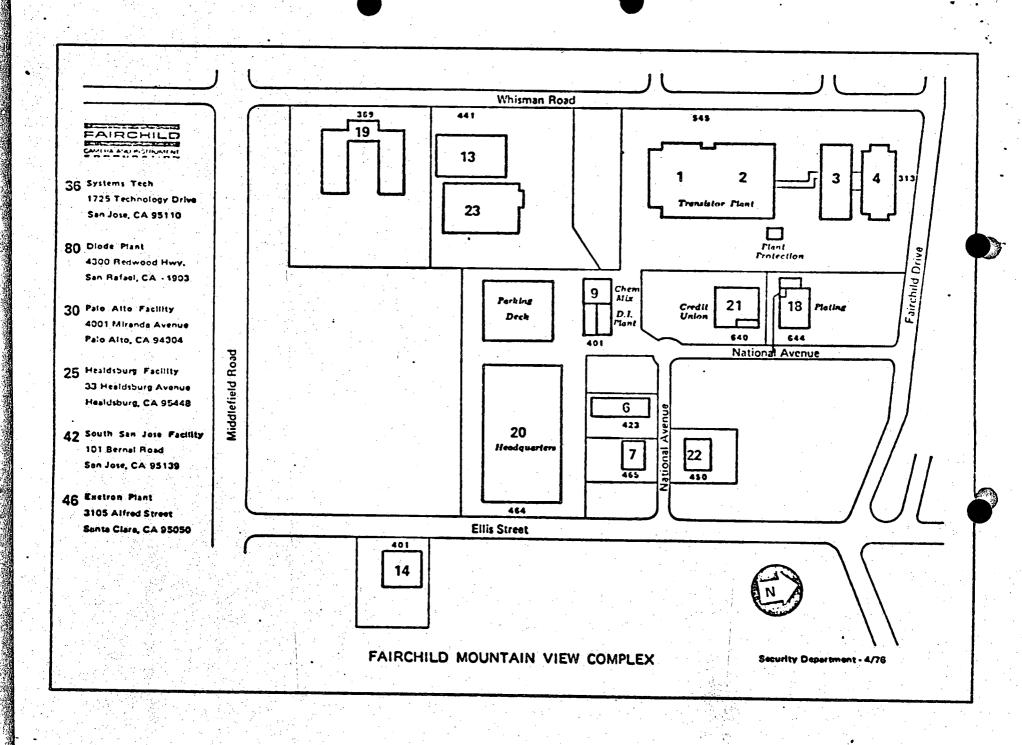
SFUND RECORDS CTR 2807-91948

Application for Industrial Wastes Discharge Permit

Date	February 5, 198	30		•	No	004-81-4		
A .	Name of Organization Fairchild Camera & Instrument Corporation Address 464 Ellis Street, Mtn. View, Ca 94042 Address of Point of Discharge 644 National Ave., Mtn. View, Ca Bldg. Individual Responsible Name Gregory Geary					Telephone (415) 962-4773		
٠.								
	for industrial waste Signature 1844 Signature (408) 371-3532							
	Attach Map Showing Po	oint of Discharge	e, Sampling Points, a	nd Waste Treatmen	t Facility.		*,	
В.	Flow Rate: Average	111,000 ga	ils/day Max.	122,000als/day	Peak Hou	rly115	GPM	
 C.	Submit separate stateme	ent:	• .			e juli ya jeo		
	1. Detailing type of industry and nature of products							
	2. Listing chemicals used and approximate concentrations							
	3. Describing waste trea	itment facilities			The second se		ក្រុមស្រីក	
	4. Giving characteristics	of exceptional	industrial wastes 🕖					
	5. Concerning radioacti							
	6. Naming organic solve	ints discharged a	and concentration at	point of discharge				
D.	Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.							
	Biochemical oxygen demand (B.O.D.)mg/1			Greese and oil, total mg/1 Hydrogen Ion content pH 5.5 - 10.0				
	Chemical oxygen demar	nd (C.O.D.) -	100 mg/1		n content pH 211		-44	
	Total Solids, Average	•	200	Fluoride			19/1 16/1	
	Suspended Solids, Avera		60 °F	Chlorine dem	nano		.	
	Temperature		· · · · · · · · · · · · · · · · · · ·	,		Allowable	A4	
		Max. Cons.	Allowable Mass		Max. Conc. Allowable	Emission		
		Allowable mg/1	Emission Rate kg/day		mg/1	kg/day		
	Arsenic	0.1	0.01	Formaldehyde	_5.0_	_0.5		
	Barium	5.0	0.5	Lead	_0.5_	_0.0:		
	Beryllium	1.0	0.1	Manganese	_1.0_	_0.1		
	Boron	1.0	0.1	Mercury	_0.05	_0.00	- : '	
	Chlorine	50.0	_5.0_	Nickel	_1.0_	_0.1	-	
	Cadmium	0.1	0.01	Chloroform	50.0	_5.0	-	
-	Chromium Hexavalent	12.0	0.1	Phenois	_1.0_	_0.1_	-	
	Chromium Total	2.0	0.2	Selenium	_2.0_		- .	
	Cobalt	1.0	_0.1_	Silver	_5.0_	_0.5	-	
	Copper	1.0	1.0	Zinc	_5.0_		-	
٠	Cresols	2.0	_0.2_					
	Cyanides	1.9	_U.L					
	TO BE COMPLETED B		• •					
Perm	iit to Discharge Industria	Wastes in Acco	ordance with This Ap	oplication Approved	Subject to	Attached	General and	
Aller	Shelley, Director of Pul		1.4		Specific C			
Signa	stureU	hen the	Mey	Dat	· 2-5-	80		
	iit to Discharge Exceptio Details:	nal Industrial W	aste Approved	and the second of the second o	grand to the section of the section	Sara pagaga		
				e e e e e e e e e e e e e e e e e e e				
Aller	Shelley, Director of Pul	olic Works			No. of the second			
Signa	ature			Dat	0			
DIST	RIBUTION: Original to Indi	estrial Wasto File.	Copy to Discharger, Co	py to Water Quality C	Control Plant, Copy	to Palo Alto, C	opy to Sewer	

DISTRIBUTION: Original to Industrial Waste File, Copy to Discharger, Copy to Water Quality Control Plant, Copy to Palo Atto, Copy to Sewel Division.

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APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT, ITEM C.

Type of Industry and Nature of Products

rairchild Semiconductor processes silicon metal into electronic semiconductor devices.

Chemicals used in semiconductor device processing are:

Cases	Liquids	Liquids
Nitrogen	Sulfuric acid	Methanol
Hydrogen	Nitric acid	Isopropanol
Oxygen	Hydrofluoric acid	Methylene chloride
Argon	Hydrochloric acid	Trichloroethane
Hydrogen chloride	Acetic acid	Detergents
Chlorine	Phosphoric acid	Aluminum sulfate
pressed air	Ammonium fluoride	Sodium carbonate
Ammonia	Ammonium hydroxide	Sodium hydroxide
	Acetone	Preon
		Glycerin
		Xylene

Waste treatment facilities

In Building No. 18 a cyanide destruction system operates to destroy and convert cyanides to nitrogen and carbon dioxide. The final effluent is neutralized to a pH between 6 and 9.

racteristics of exceptional industrial wastes. None.:

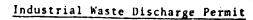
No radioactive wastes are discharged.

Organic solvents are captured for storage and recycling.

ADDITIONAL INFORMATION REGARDING THE I.W. PERMIT FOR BUILDING 1, 2 & 3

- (1) The LIC relocation to Building 1 will remove production at Building 20, resulting in a transfer of water flow within the Mountain View complex (not a water flow increase).
- (2) The conversion from 3" to 4" wafers by LIC will result in a 44% increase in production with no increased labor or water usage.
- (3) A BPM group will move from Building 20 to the South San Jose facility in the second quarter of 1980, eliminating the flow from this operation.
- (4) The BPM operations that remain in Mountain View will convert from 3" to 4" wafers, resulting in a 44% production increase with no increased labor or water usage.
- (5) The Transistor group will be moving to the San Rafael facility, resulting in the elimination of flow from this operation.
- (6) A 6 month feasability study will be performed on 300 gpm D.I. Water reclaim and 600 gpm treated effluent reclaim.
- (7) Pending favorable completion of the feasability studies, construction of the above reclaim systems will take an estimated 2 years (depending upon economic climate).
- (8) The projected flow rates from the new system were based on peak water usage at full production rates, actual flow rates will be less.
- (9) The relocation of LIC at Building 1 will not be fully operational until 1-2 years after start-up.
- (10) Actual flow rates can only be measured after the system is installed. Loss of water via cooling towers is known to be significant.
- (11) Planning is under way to convert to 5" wafers. This would yield a 63% production increase over todays output without increasing labor or water usage.
- (12) The vast majority of construction projects at FC & I are based on technological advances to increase yields, not new production that requires more labor or water usage.
- (13) Even without the above, the new neutralization pit would not increase our total water discharge but would tend to only balance the discharge from two locations.

CITY OF MOUNTAIN VIEW



DATE: February 5, 1980 NO. 004-81-4

NAME OF ORGANIZATION: Fairchild Camera & Instrument Corporation

ADDRESS: 464 Ellis Street, Mountain View, Calif. 94043

GENERAL CONDITIONS

- This permit is issued under the ordinances and regulations of the City of Mountain View currently in effect, but all discharges hereunder shall comply with all ordinances and regulations of the City and all other applicable local. state, and federal regulations, whether now in effect or hereafter adopted or amended.
- 2. Any violation of the terms of this Permit or the ordinances or regulations of the City shall be grounds for revocation.
- If any proposed revisions in plant operations are expected. to cause significant changes in waste water quality or quantity (25 percent or more, or 25,000 gallons per day) from that given in approved Permit information, an application for an amended permit must be submitted for approval detailing the nature of the changes.
- 4. In accordance with Section 35.32.8 of the City Code, sccidental discharges of industrial wastes shall be reported immediately to the Public Works Department, telephone number 967-7211, Ext. 270, during normal office hours, or to the Fire Department, telephone number 968-4415, on holidays or after normal office hours AND to the Palo Alto Regional Water Quality Control Plant, telephone number 329-2598 so that appropriate countermeasures may be taken.
- This Permit is not transferable without prior written consent of the Director of Public Works. In general, a change of ownership will require a new permit.
- 6. The issuance of this permit does not constitute a warranty that the design capacity of the sewage collection and treatment system is sufficient to accommodate peak sewage flows from all dischargers who may now or hereafter be connected to the system. Pursuant to Sec. 35.32.1(d) the City reserves the right to impose restrictions on sewage discharges where necessary in the judgment of the City to assure the proper functioning in the sewerage system.

SPECIFIC CONDITIONS

This permit is for a period ending on April 1 WHATEN STORY BEEN BEEN BEEN BAS been made

1981 if significant proplant flow and approved pretreatment facilities have been installed.

This permit applies to industrial waste discharges at the following location(s) only:

644 National Avenue

Building No. 18

^{3.} Your attention is called to the fact that flow rates shown on the permit application exceed per-acre design flows of the sewers serving the above locations. Restrictions or additional charges may be imposed in accordance with Sec. 35.32.1(d) of the City Code should peak sewage flows from the total upstream acreage approach the capacity of those sewers.